

## ABTRACT

Systems and methods for scheduling transmissions from multi-beam transmitters to sets of receivers are provided. An angle of departure is determined for each of the receivers, and  
5 the transmissions to the receivers is then scheduled on the basis of the separation between the angles of departure between the receivers. For example, a constraint may be imposed that no two receivers having an angle of departure separated by less than a first minimum will be scheduled during an even  
10 scheduling interfold. Some implementations include a prioritized scheduling system in which high priority receivers are scheduled according to a performance metric subject to the angle departure constraint, and subsequently low priority receivers as scheduled only subject to the angle departure  
15 constraint.